rCAT v0.1
Relational Character Analysis Tool

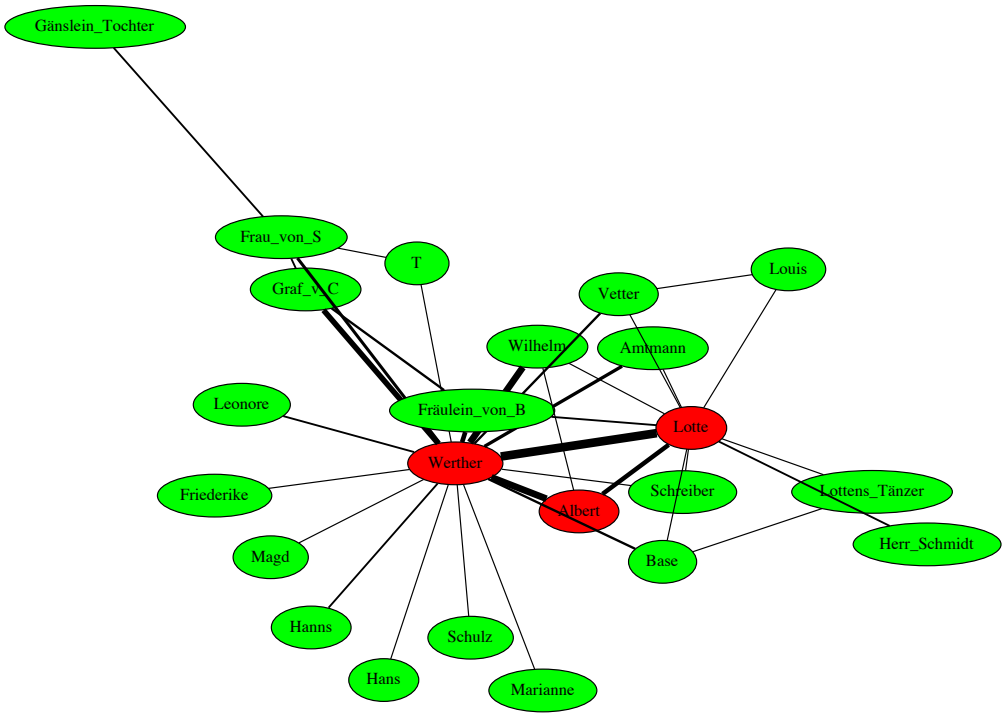

Figure 1: Network

1 Data Input

Statistics

- timestamp: 2018-06-22 13:22:09
- analyzed text: "1___1 Goethe_Die_Leiden_des_jungen_Werthers_1774.txt"
- length of text: 35461 tokens
- number of characters (with at least one degree): 23

Input parameters

- distance measure: 10
- context measure 1 (words before Character 1): 8
- context measure 2 (words after Character 2): 8

2 Network Parameters

Here you can get information about the network parameters.

Definitions

- Average degree: The degree of a node is the number of edges connected to it. It measures the number of connections to other characters. Average degree is calculated on a probability of two nodes being connected.
- SD degree: Standard deviation of all degrees.
- Density: Graph density is the ratio of the number of edges to the number of possible edges.
- Weighted degree: Sum of weights of incident edges. Measures the number of interactions of a character.

Current network parameters

- average degree: 3.0434782608695654
- sd degree: 3.878592304028559
- density: 0.1383399209486166

Degrees

Character (Node)	degree	weighted degree
Werther	18	322
Lotte	11	179
Albert	3	65
Wilhelm	3	51
Graf v. C.	3	30
Fräulein von B . .	3	19
Frau von S . .	4	10
Amtmann	2	7
Vetter	3	5
Base	3	5
Schreiber	2	2
Louis	2	2
Gänslein Tochter	1	2
Hanns	1	2
Lottens Tänzer	2	2
T . .	2	2
Herr Schmidt	1	2
Leonore	1	2
Friederike	1	1
Magd	1	1
Hans	1	1
Marianne	1	1
Schulz	1	1

Weights for Edges

Character Pair (Edge)	Weight
Werther -- Lotte	155
Werther -- Albert	51
Werther -- Wilhelm	49
Werther -- Graf v. C.	25
Werther -- Fräulein von B . .	14
Lotte -- Albert	13
Werther -- Amtmann	6
Werther -- Frau von S . .	5
Werther -- Vetter	3
Werther -- Base	3
Graf v. C. -- Fräulein von B . .	3
Werther -- Hanns	2
Werther -- Leonore	2
Lotte -- Fräulein von B . .	2
Lotte -- Herr Schmidt	2
Graf v. C. -- Frau von S . .	2
Gänslein Tochter -- Frau von S . .	2
Werther -- Friederike	1
Werther -- Magd	1
Werther -- Schreiber	1
Werther -- Hans	1
Werther -- Marianne	1
Werther -- T . .	1
Werther -- Schulz	1
Lotte -- Wilhelm	1
Lotte -- Vetter	1
Lotte -- Schreiber	1
Lotte -- Louis	1
Lotte -- Amtmann	1
Lotte -- Base	1
Lotte -- Lottens Tänzer	1
Albert -- Wilhelm	1
Vetter -- Louis	1
Base -- Lottens Tänzer	1
Frau von S . . -- T . .	1
Werther -- Der Baron F . .	0
Werther -- Grafen von M . .	0
Werther -- Louis	0
Werther -- Herrn Gemahl	0
Werther -- Gänslein Tochter	0
Werther -- Hofrat R . .	0
Werther -- Der älteste Bub	0
Werther -- mein gutes Weib unter der Linde	0
Werther -- Meine Großmutter	0
Werther -- meine Gesellschafterin	0
Werther -- Lottens Tänzer	0
Werther -- Obrist B.	0
Werther -- Herr Schmidt	0
Werther -- seiner tauben Frau	0
Werther -- den übel fournierten J.	0

3 Word Cloud for single characters (method: most frequent contexts words

These word clouds were constructed based on most frequent words. They show the most frequent words that appear around character mention.

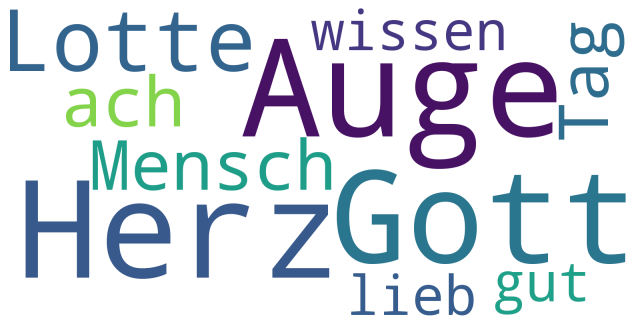

Figure 2: word cloud of "Werther"

Figure 3: word cloud of "Lotte"

Figure 4: word cloud of "Albert"

4 Word Cloud for character pairs (method: most frequent contexts words

These word clouds were constructed based on most frequent words. They show the most frequent words that appear in the context of the character pair.

Figure 5: word cloud of "Werther -- Lotte"

Figure 6: word cloud of "Werther -- Albert"

Figure 7: word cloud of "Werther -- Wilhelm"

rCat, v.0.1

This program is developed by Florian Barth and Evgeny Kim with the help of Roman Klinger and Sandra Murr. It is part of the Center for Reflected Text Analytics (CRETA) at the Universtiy of Stuttgart.

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